

J. KERR

47

1633

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/051,013

DATE: 05/04/2000
TIME: 12:12:32

Input Set : A:\48075bp1.app
Output Set: C:\CRF3\REFHOLD\05042000\I051013.raw

3 <110> APPLICANT: Bestor, Timothy H.
5 <120> TITLE OF INVENTION: CHIMERIC DNA-BINDING/DNA METHYLTRANSFERASE NUCLEIC ACID
6 AND POLYPEPTIDE AND USES THEREOF
8 <130> FILE REFERENCE: 48075/B/PCT/US
10 <140> CURRENT APPLICATION NUMBER: 09/051,013
11 <141> CURRENT FILING DATE: 1998-10-09
13 <160> NUMBER OF SEQ ID NOS: 8
15 <170> SOFTWARE: PatentIn Ver. 2.1
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 632
19 <212> TYPE: DNA
20 <213> ORGANISM: HIV
22 <400> SEQUENCE: 1

23 tgggaagggct aattcactcc caacgaagac aagatatacct tgatctgtgg atctaccaca 60
24 cacaaggcta cttocctgat tagcagaact acacaccagg gccaggagtc agatatccac 120
25 tgacctttgg atgggtgctac aagctagtac cagttgagcc agataaggta gaagaggcca 180
26 acaaaaggaga gaacaccagc ttgttacacc ctgtgagcct gcatgggatg gatgaccgg 240
27 atatataagt gttagagtgg aggtttgaca gccgcctagc atttcatcac gtggcccgag 300
28 agctgcatcc ggagtacttc aagaactgct gatatcgagc ttgctacaag ggactttccg 360
29 ctgggggactt tccagggagg cgtggcctgg gcgggactgg ggagtggcga gccctcagac 420
30 ctgcatataa gcagctgctt ttgcctgta ctgggtctct ctggttagac cagatctgag 480
31 cctgggagct ctctggctag ctagggaacc cactgcttaa gcctcaataa agcttgccct 540
32 gagtgcctca agtagtgtgt gcccgctctgt tgtgtgactc tggtaactag agatccctca 600
33 gaccctttta gtcagtgtgg aaaatctcta gc 632

36 <210> SEQ ID NO: 2
37 <211> LENGTH: 513
38 <212> TYPE: PRT
39 <213> ORGANISM: Spiroplasma
41 <220> FEATURE:

42 <223> OTHER INFORMATION: X in this sequence is unknown
44 <400> SEQUENCE: 2

45 Met Arg Gly Ser His His His His His Gly Ile Cys Thr Thr Met
46 1 5 10 15
W--> 48 Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
49 20 25 30
W--> 51 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
52 35 40 45
W--> 54 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
55 50 55 60
W--> 57 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
58 65 70 75 80
W--> 60 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
61 85 90 95
W--> 63 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
64 100 105 110
W--> 66 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
67 115 120 125

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W--> 69 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      70      130      135      140
W--> 72 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      73 145      150      155      160
W--> 75 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      76      165      170      175
W--> 78 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      79      180      185      190
W--> 81 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      82      195      200      205
W--> 84 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      85      210      215      220
W--> 87 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      88 225      230      235      240
W--> 90 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      91      245      250      255
W--> 93 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      94      260      265      270
W--> 96 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      97      275      280      285
W--> 99 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      100 290      295      300
W--> 102 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      103 305      310      315      320
W--> 105 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      106      325      330      335
W--> 108 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      109      340      345      350
W--> 111 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      112      355      360      365
W--> 114 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      115      370      375      380
W--> 117 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      118 385      390      395      400
W--> 120 Xaa Xaa Xaa Gly Gly Arg Ser Thr Ser His Glu Arg Xaa Xaa Xaa Xaa
      121      405      410      415
W--> 123 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      124      420      425      430
W--> 126 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      127      435      440      445
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      133 465      470      475      480
W--> 135 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      136      485      490      495
W--> 138 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gln Lys Asp Lys Lys Ala Gly
      139      500      505      510
      141 Ser

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Input Set : A:\48075bpl.app
 Output Set: C:\CRF3\REFHOLD\05042000\I051013.raw

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146 <211> LENGTH: 20
147 <212> TYPE: PRT
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152 1 5 10 15
154 Ser His Glu Arg
155 20
158 <210> SEQ ID NO: 4
159 <211> LENGTH: 23
160 <212> TYPE: PRT
161 <213> ORGANISM: Spiroplasma
163 <400> SEQUENCE: 4
164 Gln Lys Asp Lys Lys Ala Gly Ser Ser Val Asp Phe Ala Ile Gly Phe
165 1 5 10 15
167 Gly Phe Cys Phe Thr Met Ser
168 20
171 <210> SEQ ID NO: 5
172 <211> LENGTH: 9
173 <212> TYPE: PRT
174 <213> ORGANISM: Spiroplasma
176 <400> SEQUENCE: 5
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178 1 5
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182 <211> LENGTH: 17
183 <212> TYPE: PRT
184 <213> ORGANISM: Spiroplasma
186 <400> SEQUENCE: 6
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188 1 5 10 15
190 Ser
194 <210> SEQ ID NO: 7
195 <211> LENGTH: 8
196 <212> TYPE: PRT
197 <213> ORGANISM: Spiroplasma
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201 1 5
204 <210> SEQ ID NO: 8
205 <211> LENGTH: 128
206 <212> TYPE: DNA
207 <213> ORGANISM: Spiroplasma
209 <400> SEQUENCE: 8
210 ccatggaatt gtgagcgtc acaattcgcg tcgcgccgac gccgtcgcg cgacgcgacg 60
211 cgttggtacc ttaacactcg cgagtgttaa gcgcagcgcg gctgcggcag cgccgctgcg 120
212 ctgcgcaa 128

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Input Set : A:\48075bpl.app

Output Set: C:\CRF3\REFHOLD\05042000\I051013.raw

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L:48 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2
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L:51 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
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Input Set : A:\48075bpl.app
Output Set: C:\CRF3\REFHOLD\05042000\I051013.raw

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